

Protection Levels for E911

Dr. Samir Soliman

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Assisted GPS Parameters

- Receiver noise figure = 4 dB
- Minimum GPS signal = -147 dBm
- Minimum C/(No+Io) = 22.5 dB-Hz (from gpsOne testing in Jan. 2002)
- Protection distance = 6 feet

Maximum allowable interference levels

- **No+Io = -169.5**
- **No = -174 dBm/Hz**
- **Io = -179.2 dBm/Hz**
- **I = -119.2 dBm/MHz**
- **Min. path loss = 41.6 dB**
- **Max. UWB EIRP = - 77.6 dBm/MHz**
- **Min. emission mask = 36.4 dB below Part 15**
- **Aggregation margin = 6 dB**
- **Total emission mask = 42.4 dB below part 15**

Protection Levels for Comm. Link

- Invoking the PCS test results for cellular band
 - UWB interference must be 11 dB below desired power
 - Cellular received power = -100 dBm (edge of coverage)
 - Max. UWB interference power = -110 dBm/MHz
 - Min. path loss = 35.7 dB
 - Max. EIRP = -74.3 dBm/MHz
 - Part 15 levels for < 960 MHz is -40 dBm/MHz
 - Min. emission mask = 34.3 dB
 - Aggregation margin = 6 dB
 - Total emission mask = 40.3 dB below Part 15